ABSTRACT

Expressing a perveance of an electron gun to be determined by a form of the electron gun as $P\mu$, a voltage to be impressed on an accelerating electrode Va and a beam current Ib, voltage Va which satisfies the following expression,

$$Ib < P\mu \times Va^{3/2}$$

is impressed on the accelerating electrode.

Further, the electric potential of the accelerating electrode is maintained at the highest level of all electrodes in the electron tube at all times.

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